

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE: Application of PECKHAM et al.

International Application No.: PCT/US03/39619

International Filing Date: December 12, 2003

For: Cyclopropyl Compounds as CCR5 Antagonists

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request that the references identified on Form PTO-1449 appended hereto be considered by the Examiner and officially made of record in accordance with the provisions of 37 CFR 1.97

☒ Copies of the references are enclosed

☐ Copies of the references were submitted in parent application Serial No. \_\_\_\_\_  
(37 CFR 1.98(d))

☒ A copy of the International Search Report which issued on International Application No. PCT/US03/39619 is submitted herewith. All of the publications cited in the International Search Report are listed on the attached form PTO-1449 and Applicants understand that copies have been supplied to the U.S. Patent Office by the International Bureau.

A. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the above application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 CFR 1.97(b).

OR

☐ The Information Disclosure Statement submitted herewith is being filed before the mailing of a first office action after the filing of a Request For Continued Examination under 37 C.F.R. 1.114 (37 C.F.R. 1.97(b)(4)).

B. ☐ The Information Disclosure Statement transmitted herewith is being filed **after** three months of the filing date of the above application or the date of entry into the national stage as set forth in § 1.491 of an international application or after the mailing date of the first Office Action on the merits, whichever event occurred last, but **before** the mailing date of either:  
(1) a final action under § 1.113 or  
(2) a notice of allowance under § 1.311,  
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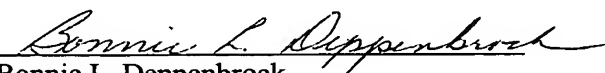
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- ☐ Applicant hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ Applicant elects the option to pay the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under § 1.97(c) (\$180.00).
- C. ☐ The Information Disclosure Statement transmitted herewith is being filed **after** a final action under § 1.113, or a notice of allowance under § 1.311, whichever occurs first, but before the payment of the issue fee. Also enclosed is a copy of the International Search Report which Issued on International Publication No.

In accordance with the requirements of 37 CFR 1.97(d):

- ☐ Applicant hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. [or]
- ☐ Applicant hereby certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement; and
- ☐ The petition fee set forth in § 1.17(i)(1) (\$180.00) is submitted herewith.
- [X] Please charge any required fees to Deposit Account No.07-1392.
- ☐ A duplicate copy of this paper is attached.

Respectfully Submitted,

  
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FORM PTO-1449  
INFORMATION DISCLOSURE STATEMENT

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GROUP	
EXAMINER	
ATTORNEY DOCKET NO.	PU4964USw

## U.S. PATENT DOCUMENTS

Examiner Initials	Patent Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate

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## FOREIGN PATENT DOCUMENTS

	Document Number	Publication Date	Country	Class	Subclass	Translation Yes   No
1.	WO00/39125	7/6/2000	PCT			
2.	WO0038680	7/6/2000	PCT			

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## OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)

3.	FINKE et al., Antagonists of the human CCR5 receptor as anti-HIV-1 agents. Part 2: structure-activity relationships for substituted 2-aryl-1-'N-(methyl)-N-(phenylsulfonyl)amino)-4-(piperidin-1-yl) butanes, Bioorganic and Medicinal Chemistry Letters 11(2):265-270 (2001).
4.	FINKE et al., Antagonists of the human CCR5 receptor as anti-HIV-1 agents. Part 3: a proposed pharmacophore model for 1-(N-(methyl)-N-(phenylsulfonyl)amino)-2-(phenyl)-4-(4-(substituted)piperidin-1-yl)butanes, Bioorganic and Medicinal Chemistry Letters 11(18):2469-2473 (2001).
5.	FINKE et al., Antagonists of the human CCR5 receptor as anti-HIV-1 agents. Part 4: synthesis and structure-activity relationships for 1-[N-(methyl)-N-(phenylsulfonyl)amino]-2-(phenyl)-4-(4-(N-(alkyl)-N-(benzyloxycarbonyl)amino)piperidin-1-yl)butanes, Bioorganic and Medicinal Chemistry Letters 11:2475-2479 (2001).
6.	DORN et al., Antagonists of the human CCR5 receptor as anti-HIV-1 agents. Part 1: Discovery and initial structure-activity relationships for 1-amino-2-phenyl-4-(piperidin-1-yl)butanes, Bioorganic and Medicinal Chemistry Letter 11(2):259-264 (2001).
7.	MAEDA et al., The current status of the challenges in, the development of CCR5 inhibitors as therapeutics for H infection, Current Opinion in Pharmacology 4(5):447-452 (2004).
8.	KUMAR et al., Pharmacokinetics and Interactions of a Novel Antagonist of Chemokine Receptor 5 (CCR5) with Ritonavir in Rats and Monkeys: Role of CYP3A and P-glycoprotein, J. of Pharmacology and Experimental therapeutics 304(3):1161-1171 (2003).
9.	BONNAUD et al., 1-Aryl-2-(aminomethyl)cyclopropanecarboxylic Acid Derivatives. A New Series of Potential Antidepressants, J. Med. Chem 30:318-325 (1987).

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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.